

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application. Please amend claim 1 and add new claim 22 as follows:

**LISTING OF CLAIMS**

1. (Currently Amended) A dry forming apparatus comprising:

a mold-transfer mechanism for transferring a mold containing a die and lower punch units at least between a powder supply stage, a pressing stage, and a formed-product removing stage;

a pressing driving mechanism, having upper punch units, for driving the upper and lower punch units for pressing in the pressing stage;

a connecting mechanism for connecting lower punch units to the pressing driving mechanism when the mold is transferred to the pressing stage, and for releasing the connection of the lower punch units; and

a unit holding mechanism for holding the lower punch units while the units are transferred to the next stage.

2. (Original) A dry forming apparatus according to claim 1, further comprising in the powder supply stage:

a charging driving mechanism for driving the punch units to form a space to be filled with powder in the powder supply stage;

a connecting mechanism for connecting the punch units to the charging driving mechanism when the mold is transferred to the powder supply stage, and for releasing the connection of the punch units when the mold is transferred to the next stage; and

a unit holding mechanism for holding the punch units while the mold is transferred to the next stage.

3. (Original) A dry forming apparatus according to claim 1, further comprising in the formed-product removing stage:

a taking-out mechanism for driving the punch units in the formed-product removing stage, to take out the formed product;

a connecting mechanism for connecting the punch units to the taking-out driving mechanism when the mold is transferred to the formed-product removing stage, and for releasing the connection of the punch units when the mold is transferred to the next stage; and

a unit holding mechanism for holding the punch units while the mold is transferred to the next stage.

4. (Original) A dry forming apparatus according to claim 1, wherein the connecting mechanism is provided for each of the pressing driving mechanism, the charging driving mechanism, and the taking-out driving mechanism; and

whereby the punch units are driven by the pressing driving mechanism, the charging driving mechanism, and the taking-out driving mechanism via the connecting mechanism.

5. (Original) A dry forming apparatus according to claim 1, wherein the connecting mechanism comprises:

clamp bodies fixed to each of the pressing driving mechanism, the charging driving mechanism, and the taking-out driving mechanism;

sliding claws movably supported on each of the clamp bodies; and

an advancing-receding driving mechanism which advances or recedes each of the sliding claws between a clamping position at which the punch units are clamped and an unclamping position at which the clamping is released.

6. (Original) A dry forming apparatus according to claim 1, further comprising:

punch units and a die;

wherein the punch units each include an upper punch unit including at least first and second upper-punches, and a lower punch unit including at least first and second lower-punches, the upper and lower punch units being opposed to each other across the die, and the pressing driving mechanism includes driving shafts connected to the first and second upper-punches and the first and second lower-punches, respectively, and actuators which independently drive the driving shafts.

7. (Original) A dry forming apparatus according to claim 2, further comprising:

a lower punch unit including at least first and second lower-punches; and

the charging driving mechanism and the taking-out driving mechanism each including driving shafts connected to the first and second lower-punches and actuators which independently drive the driving shafts.

8. (Original) A dry forming apparatus according to claim 6, wherein each driving shaft includes a strut and a ball screws screwed into the strut, each punch unit being connected to the strut, and the actuator being connected to the ball screw.

9. (Original) A dry forming apparatus according to claim 6, wherein each actuator includes a servomotor and a timing belt, the timing belt positioned so that rotation of the servomotor is transmitted to the ball screw via the timing belt.

10. (Original) A dry forming apparatus according to claim 6, wherein at least the driving shafts for the first and second upper punches each include a coaxial multi-shaft structure including an inner cylinder and an outer cylinder, the inner cylinder inserted into the outer cylinder relatively movably in the axial direction, wherein the first and second upper-punches can be independently driven by the relative movement of the outer and inner cylinders.

11. (Original) A dry forming apparatus according to claim 1, wherein the mold-transfer mechanism includes a rotary table, the mold being transferred to any one of the stages by rotation of the rotary table.

12. (Original) A dry forming apparatus according to claim 1, wherein the mold-transfer mechanism includes a linear table, the mold being transferred to any one of the stages by linear movement of the linear table.

13. (Original) A dry forming apparatus according to claim 1, wherein the unit-holding mechanism is configured and arranged to hold the punch units, to cooperate with the clamp-releasing operation when the connecting mechanism releases the clamping of the punch units, and to cooperate with the clamping operation when the connecting mechanism clamps the punch units to release the holding of the punch units.

14. (Original) A dry forming apparatus according to claim 1, further comprising:

a powder charging mechanism in the powder supply stage for charging a powdery raw material into the space to be dry-formed of the die; and

a formed-product taking-out mechanism in the formed-product removing stage for taking out a press-formed product from the mold.

15. (Original) A dry forming apparatus according to claim 1, further comprising:

a machining stage between the pressing stage and the formed-product removing stage for machining a pressing-formed product.

16. (Original) A dry forming apparatus according to claim 1, further comprising:

a cleaning stage next to the formed-product removing stage for removing powder adhering to the die and the punch units.

17. (Withdrawn) A method of dry pressing to produce a formed-product in which a mold containing a die and punch units is transferred at least to a powder supply stage, a pressing stage, and a formed-product removing stage in that order, comprising the steps of:

in the powder supply stage,

charging powder into the mold, and

transferring the mold to the pressing stage while the mold is held;

in the pressing stage,

positioning the mold, the mold being fixedly located and interlocked with a pressing driving unit, and releasing the punch units,

pressing by driving the mold with the pressing driving unit to press the powder, and

transferring the mold, including

releasing the fixed positioning of the mold,

releasing the pressing driving unit, and

holding and transferring the mold to the formed-product removing stage; and

taking out the formed product from the die in the formed-product removing stage.

18. (Withdrawn) A method of dry forming according to claim 17, further including the steps of:

in the powder supply stage,

positioning and fixedly locating the mold, the mold being connected to a charging driving mechanism, and releasing the punch units, forming a charge space, including driving the mold by the charging driving mechanism to form the charge space to be filled with powder, charging the powder into the mold, transferring the mold, including releasing the fixed positioning of the mold, releasing the mold from the charging driving mechanism, and transferring the mold to the pressing stage while holding the mold.

19. (Withdrawn) A method dry forming apparatus according to claim 17, further comprising the steps of:

in the formed-product removing stage, positioning the mold including, fixedly locating the mold, connecting the mold to a taking-out driving mechanism, and releasing the punch units, taking out the formed product, including driving the mold by the taking-out driving mechanism to take out the formed product from the die, and transferring the mold, including releasing the fixed location of the mold, releasing the mold from the taking-out driving mechanism, and transferring the mold to the next stage.

20. (Original) A dry forming apparatus according to claim 7, wherein each driving shaft includes a strut and a ball screws screwed into the strut, each punch unit being connected to the strut, and the actuator being connected to the ball screw.

21. (Original) A dry forming apparatus according to claim 7, wherein each actuator includes a servomotor and a timing belt, the timing belt positioned so that rotation of the servomotor is transmitted to the ball screw via the timing belt.

22. (New) A dry forming apparatus according to claim 1, wherein upper punch units are provided only in the pressing driving mechanism.